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1 Which equation could represent the polynomial function with the zeros given below?

$$\{-7, -2, 3\}$$

- A) $f(x) = x^3 - 2x^2 - 29x - 42$ Mr. Sandoval
- B) $f(x) = x^3 + 2x^2 - 29x + 42$ Mr. Graham
- C) $f(x) = x^3 + 6x^2 - 13x - 42$ Mrs. Andrews
- D) $f(x) = x^3 - 6x^2 - 13x + 42$ Miss Ramsey
- E) $f(x) = x^3 + 8x^2 + x + 42$ Mr. Tundo

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Find the zeros of each polynomial function then color the gingerbread house correctly.

1. $f(x) = 2x^2 - 15x + 28$	Blue $2, -2, \frac{\sqrt{14}}{2}, -\frac{\sqrt{14}}{2}$	Green $2, -2, \frac{\sqrt{14}}{4}, -\frac{\sqrt{14}}{4}$
2. $f(x) = x^3 + 7x^2 - 5x - 35$	Red $5, -5, -1$	Yellow $5, -5, -1$
3. $f(x) = x^3 - 48x - 128$	Green -4 roots 2, 8	Red -4, 4, 8
4. $f(x) = x^3 + 5x^2 + 49x + 245$	Purple $-5, \sqrt{7}, -\sqrt{7}$	Red $-5, 7i, -7i$
5. $f(x) = x^3 - 8x^2 + 17x - 10$	Black $6, 1 + \sqrt{3}, 1 - \sqrt{3}$	Orange $6, 1 + 2i, 1 - 2i$
6. $f(x) = x^3 + 9x^2 + 17x^2 - 9x - 18$	Yellow $-6, -3, -1, 1$	Red $-1, 1, 3, 6$
7. $f(x) = x^3 - 7x^2 + 8x + 10$	Red $5, 1 + \sqrt{3}, 1 - \sqrt{3}$	Green $5, -1 + \sqrt{3}, -1 - \sqrt{3}$
8. $f(x) = 3x^4 - 18x^3 + 20x^2 - 40x + 32$	Green $\frac{4}{3}, 2, 2i, -2i$	Yellow $\frac{4}{3}, 2, i, -i$
9. $f(x) = x^4 - 64$	Green $4, 2 + 2\sqrt{3}i, 2 - 2\sqrt{3}i$	Black $4, -2 + 2\sqrt{3}i, -2 - 2\sqrt{3}i$
10. $f(x) = x^4 - 6x^3 + 11x^2 - 12x + 8$	Red 3 roots 2, $\sqrt{2}, -\sqrt{2}$	White 3 roots 2, $i\sqrt{2}, -i\sqrt{2}$

KEY

Activity 6: How Well Did I Understand?

Directions: Answer each of the following.

1. Which of the following quadratic equations may be solved more appropriately by factoring? Explain your answer.

- a. $2x^2 - 72$
- b. $x^2 - 12x - 36 = 0$
- c. $w^2 - 64 = 0$
- d. $2x^2 - 6x - 10 = 0$

2. Patricia says that it's more appropriate to use the method of factoring than extracting square roots in solving the quadratic equation $4x^2 - 9 = 0$. Do you agree with Patricia? Explain your answer.

3. Do you agree that not all quadratic equations can be solved by factoring? Justify your answer by giving examples.

4. Find the solutions of each of the following quadratic equations by factoring. Explain how you arrived at your answer.

- a. $(x + 3)^2 = 25$
- b. $(x + 4)^2 = 2x$
- c. $(2t - 3)^2 = 2t^2 + 5t - 26$
- d. $3(x + 2)^2 + 2x^2 - 3x^2 - 8$

5. Do you agree that $x^2 + 5x - 14 = 0$ and $14 - 5x - x^2 = 0$ have the same solutions? Justify your answer.

6. Show that the equation $(x - 4)^2 = 9$ can be solved both by factoring and extracting square roots.

7. A computer-manufacturing company would like to come up with a new laptop computer such that its monitor is 80 square inches smaller than the present ones. Suppose the length of the monitor of the larger computer is 5 inches longer than its width and the area of the smaller computer is 70 square inches. What are the dimensions of the monitor of the larger computer?

In this section, the discussion was about your understanding of solving quadratic equations by factoring.

What new insights do you have about solving quadratic equations by factoring? How would you connect this to real life? How would you use this in making decisions?

Now that you have a deeper understanding of the topic, you are ready to do the tasks in the next section.

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